

IN THE CLAIMS

1. (cancelled)

2. (currently amended) A data transmission control method, ~~comprising: according to claim 1, characterized in that~~
repetitively transferring a cyclic data unit for a desired
period of time, the cyclic data unit including desired data that
is also transferred,

processing the cyclic data unit by enabling a client that
receives the cyclic data unit from a server to determine that
the cyclic data unit contents were switched, and

~~control information whose contents are switched in~~
~~accordance with the switching control information of said cyclic~~
~~data unit is included in said the cyclic data unit, and~~

~~said cyclic data unit switching wherein processing the~~
cyclic data is realized by setting a control information change
event which denotes that ~~said the~~ control information has been
received under a standard of a predetermined interface, and

thereafter, executing at least -

a first process for allowing the client to transmit a
subscribe event to ~~subscribe indicate a reception of said the~~
control information change event to ~~said the~~ server, a second
process for allowing the client to transmit an event notice
~~request to request arequesting~~ notification of a generation of
an event to the server, and

a third process for notifying the client ~~of a fact~~
that the control information change event has been generated
when the changed control information is received ~~as a response~~
~~of by the server in response to said the~~ event notice request.

3. (currently amended) A data transmission control
method according to claim 2, ~~characterized in that the wherein~~

transmission of ~~said-the~~ subscribe event as said first process is executed when the contents of ~~said-the~~ cyclic data unit are switched.

4. (currently amended) A data transmission control method according to claim 2, ~~characterized in that the wherein~~ transmission of ~~said-the~~ subscribe event as said first process is executed when a program of ~~said-the~~ client is activated.

5. (currently amended) A data transmission control method according to claim 2, ~~characterized in that wherein~~ after ~~said-the~~ server notified ~~said-the~~ client of the generation of ~~said-the~~ control information change event by said third process, ~~said-the~~ client continuously uses the cyclic data unit before ~~said-the~~ control information change event in said third process is generated within a predetermined period of time until a release request of the cyclic data unit corresponding to said changed control information is transmitted to ~~said-the~~ server.

6. (cancelled)

7. (currently amended) A data transmission control method, ~~according to claim 6, characterized in that comprising:~~

repetitively transferring a cyclic data unit, the cyclic data unit including one or more data transmission units that are to be transferred for a predetermined period of time, each data transmission unit including an object that is related by a scenario description of a predetermined system, and

processing the cyclic data unit by enabling a client that receives the cyclic data unit from a server to be notified that the object has been updated, and

wherein control information whose contents are updated in accordance with the updating of ~~said-the~~ object and relates

to ~~said the~~ data transmission unit is included in ~~said the~~ cyclic data unit, and

~~said object updating notifying processing step is realized~~including ~~by~~ setting a control information updating event which denotes that ~~said the~~ control information has been received under a standard of a predetermined interface, and

thereafter, executing at least -

a first process for allowing the client to transmit a subscribe event to ~~subscribe a~~ indicate reception of ~~said the~~ control information updating event to ~~said the~~ server,

a second process for allowing the client to transmit an event notice ~~request to request a~~ requesting notification of a generation of an event to the server, and

a third process for notifying the client ~~of a fact~~ that the control information updating event has been generated when the updated control information is received as a response ~~of by~~ the server to ~~said the~~ event notice request.

8. (currently amended). A data transmission control method according to claim 7, ~~characterized in that~~wherein said third process adds identification information of the data transmission unit shown by the updated control information and notifies the client ~~of a fact that~~ a control information receiving event has been generated.

9. (currently amended) A data transmission control method according to claim 7, ~~characterized in that~~said wherein the method further is constructed in a manner such that the transmission ofcomprises transmitting ~~said the~~ subscribe event as part of said first process ~~is executed~~ when a program of ~~said the~~ client is activated or when ~~said the~~ cyclic data unit itself is switched.

10. (currently amended) A data transmission control method according to claim 7, ~~characterized in that said the method comprising is constructed in a manner such that after a response message for said event notice request from said server was obtained, the event notice request as~~executing said second process is immediately executed after a response message for said event notice request from said server is obtained.

11. (currently amended) A data transmission control method according to claim ~~6~~7, ~~characterized in that wherein the said method is constructed in a manner such that~~further comprises:

including control information regarding the data transmission unit whose contents are updated in accordance with an updating of the object which belongs thereto is included in said the cyclic data unit, and

said object updating notifying processing step executes at least -

a first process for allowing the client to transmit a subscribe event ~~to subscribe a~~indicating reception of a control information updating event to the server,

a second process for allowing the client to notify the server ~~side of an object ID of an interesting object of interest~~ and allowing the server ~~side to return a data transmission unit ID of the data transmission unit to which~~ corresponds to the notified object belongs of interest to the client,

a third process for allowing the client to form table information showing a correspondence between the object ID notified to the server side by said second process and the data transmission unit ID obtained from the server side by said second process,

a fourth process for allowing the client to transmit an event notice ~~request to request a~~requesting notification ~~of a~~

~~generation of an event~~ generation to the server,

a fifth process for adding the data transmission unit ID shown by the updated control information when the updated control information is received by the server ~~as a~~ in response ~~process to said the~~ event notice request in ~~said the~~ server and notifying the client of ~~a~~ generation of the control information updating event, and

a sixth process for allowing the client to search the data transmission unit ID of the table information which coincides with the data transmission unit ID obtained by said fifth process and specifying that the object shown by the object ID corresponding to ~~said the~~ searched data transmission unit ID has been updated.

12. (currently amended) A data transmission control method according to claim 11, ~~characterized in that said method is constructed in a manner such that~~ wherein the transmission of the subscribe event as said first process is executed when a program of the client is activated or when ~~said the~~ cyclic data unit ~~itself~~ is switched.

13. (currently amended) A data transmission control method according to claim 11, ~~characterized in that said method is constructed in a manner such that~~ wherein after a response message to the event notice request from ~~said the~~ server was obtained, ~~the event notice request as~~ said fourth process is immediately executed.

14. (currently amended) A data transmission control method according to claim ~~67~~, ~~characterized in that said method is constructed in a manner such that~~ wherein control information regarding the data transmission unit whose contents are updated in accordance with an updating of the object which belongs

thereto is included in ~~said the~~ cyclic data unit, and

said object updating notifying process executes -

a first process for allowing the client to transmit a subscribe event to ~~subscribe~~ arequest reception of a data transmission unit updating event to the server together with an object ID of an ~~interesting~~ object of interest and allowing the server to set a ~~peculiar~~ data transmission unit updating event ID in response to ~~it the request~~ and transmitting ~~said the~~ data transmission unit updating event ID to the client,

a second process for allowing the client to form table information showing a correspondence between the object ID transmitted to the server ~~side by~~ said first process and the data transmission unit updating event ID obtained from the server ~~side by~~ said first process,

a third process for allowing the client to transmit an event notice requesting ~~to request a notification of a generation of a the~~ data transmission unit updating event to the server,

a fourth process for adding said data transmission unit updating event ID shown by the updated control information and set in correspondence to the object ID of the object included in the data transmission unit when the updated control information is received as a response to said event notice request in ~~said the~~ server and notifying the client of a generation of the data transmission unit updating event, and

a fifth process for allowing the client to identify the object ID of the data transmission unit updating event ID of ~~said the~~ table information which coincides with the data transmission unit updating event ID obtained by said fourth process and specifying the object shown by said identified object ID as an updated object.

15. (currently amended) A data transmission control

method according to claim 14, ~~characterized in that~~wherein said
the method further comprises executing is constructed in a
~~manner such that after a response message for the event notice~~
~~request from the server was obtained,~~ the event notice request
as said second process ~~is immediately~~ after a response message
for the event notice request from the server is
obtained~~executed.~~

16. - 22. (cancelled)

23. (currently amended) A method of transmitting
multimedia data, comprising:~~transmitting method according to~~
~~claim 16,~~

constructing an event notice using time information and an
event name, the time information including a code at a defined
position that shows immediate generation of an event; and

generating the code at the defined position of the time
information of the event immediately when the event is intended
to be generated and transmitted, and

-wherein when there are a plurality of said events, said
the plurality of events are grouped every event for data as
based on a same target, and when event information of a
plurality of groups is simultaneously transmitted, a plurality
of event information of each ~~said every~~ group is merged as one
event packet and transmitted.

24. - 27. (cancelled)